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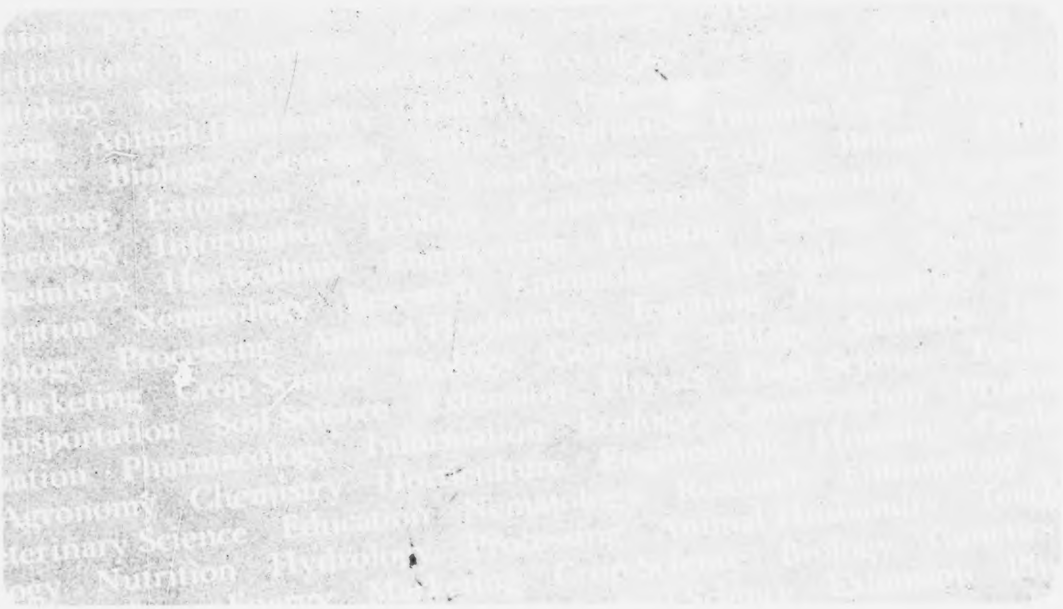

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A Bibliography of the Sugarcane Borer, *Diatraea saccharalis* (Fabricius), 1887-1980

By Richard M. Roe, A. M. Hammond, Jr., T. E. Reagan, and S. D. Hensley

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CONTENTS

Page
Abstract 1
Introduction 1
Bibliography 3
Author index 92
References grouped by subject and by period of publication 98

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A Bibliography of the Sugarcane Borer, *Diatraea saccharalis* (Fabricius), 1887-1980

By Richard M. Roe,[1] A. M. Hammond, Jr.,[1] T. E. Reagan,[1] and S. D. Hensley[2]

ABSTRACT

The bibliography contains 1,193 citations taken from 10 standard bibliographic sources and from personal communications and references cited in articles. All articles indexed in the sources under *D. saccharalis* and most of its synonyms are included. Author, subject, and chronological indexes are included. Index terms: bibliographies, *Diatraea saccharalis* (Fabricius), sugarcane borer.

INTRODUCTION

Distribution and host plants.—The sugarcane borer, *Diatraea saccharalis* (Fabricius),[3] occurs in all agroecosystems of the Western Hemisphere where sugarcane (the interspecific hybrids of *Saccharum officinarum* L.) is grown (Williams et al. 1969). Other important cultivated hosts include maize, *Zea mays* L.; sorghum, *Sorghum bicolor* (L.) Moench; and rice, *Oryza sativa* L. Areawide populations of *D. saccharalis* are higher and suppression of the pest is more difficult when one or more of these crops are cultured in the same ecosystem with sugarcane. The sugarcane borer also develops in several large-stemmed wild grasses, particularly when these occur as weeds within or near fields of sugarcane or other cultivated hosts (Holloway et al. 1928 and Hensley 1971).

Biology and damage to sugarcane.—The egg masses of *D. saccharalis* are deposited on sugarcane leaves, and the young larvae migrate to and feed in the plant spindles or leaf sheaths until half-grown; they then tunnel into the internodes, complete development, and pupate. The moths exit the stalks through the tunnels constructed by the larvae. There are at least five larval stages, and the life cycle from egg to adult is completed in 30 to 40 days (Hensley 1971).

Four or five generations of *D. saccharalis* occur each year in Louisiana sugarcane fields (Hensley 1971); more occur in warmer tropical climates where perennial growth of sugarcane is not interrupted annually by cold temperatures. During the fall in Louisiana, large larvae enter a state of arrested development termed diapause and overwinter above ground in crop residues or below ground in sugarcane stubs and seed pieces. Diapause of *D. saccharalis* is not known to occur in the tropical ecosystems of Latin America.

The sugarcane borer damages sugarcane by tunneling in the internodes, which reduces tonnage and sucrose quality, stunts growth, weakens stalks, increases the likelihood of lodging and breakage, kills terminal buds and causes suckering, destroys some vegetative buds (eyes) of seed cane, and increases the susceptibility of the cane to pathogens. Reduction in stalk weight is the most significant damage in Louisiana (Long and Hensley 1972). Invasion by stalk-rot pathogens through larval tunnels, particularly infection by the red rot fungus, *Physalospora tucumanensis* Speg., is believed to be more important in several Latin American countries.

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[3] Lepidoptera: Pyralidae.

Pest status.—*D. saccharalis* has long been considered to be the most destructive pest attacking sugarcane in the Western Hemisphere (Williams et al. 1969). Yield losses average about 13% annually in Louisiana when seasonal infestations are not maintained below the economic threshold of damage (Long et al. 1960 and Pollet et al. 1978). *D. saccharalis* is also a serious pest of maize and sorghum in the Gulf Coast region of the United States and several Latin American countries, especially when these crops are cultured in the same ecosystem with sugarcane.

Suppression.—Biological control, especially the introduction or augmentation of larval and egg parasites, is the most common method of suppressing *D. saccharalis* in the Latin American countries (Williams et al. 1969). In Louisiana a combination of cultivar resistance, cultural practices, and conservation of arthropod predators has been successful in suppressing the pest (Hensley 1971, Long and Hensley 1972, and Solomon 1973). Insecticides are applied, but only for quick reduction of economically damaging infestations that are not controlled by the other suppressive measures.

Bibliographic sources and synonymy.—To our knowledge, no previous attempt has been made to locate and organize the extensive, diverse literature on *D. saccharalis*, to make it accessible to research and extension workers. Entries for this bibliography were obtained from the following sources: Bibliography of Agriculture (1942, Vol. 1, through 1980, Vol. 44, Nos. 3-4), Biological Abstracts (1926, Vol. 1, through 1980, Vol. 70, No. 12), Biological Abstracts/RRM (1965, Vol. 1, through 1980, Vol. 19, No. 5), Commonwealth Agricultural Bureaux Abstracts (through 1979), Conference Papers Index (through 1979), Comprehensive Dissertation Index (1861-1978), Monthly Catalog of United States Government Publications (1895 through October 1980), Review of Applied Entomology, Series A (1913, Vol. 1, through 1980, Vol. 68, No. 10), Scisearch (through 1979), the Zoological Record (1887, Vol. 24, through 1975, Vol. 112), and personal communications and references cited in articles. The bibliographic source for each article, with the exception of personal communications and references cited in other articles, is given in brackets at the end of the entry. The abbreviations used are consistent with the bibliographic source from which the article was taken.

The bibliography contains all articles from the above sources that were indexed by the following species names in the genus *Diatraea* (synonyms for *Diatraea saccharalis*, Box 1931): *incomparella*, *obliteratella*, *pedidocta*, *saccharalis*, *saccharalis crambidoides*, *saccharalis grenadensis*, *saccharalis obliteratellus*, *saccharalis saccharalis*, *sacchari*, and *sacchari brasiliensis*. The bibliography does not include the following synonyms for *D. saccharalis: Chilo obliteratellus*, *Crambus leucaniellus*, *Crambus lineosellus*, *Crambus sacchari*, *Diatraetria saccharalis*, and *Phalaena saccharalis* (most if not all of these synonyms predate 1887). For a complete listing of taxonomic references to *D. saccharalis* and its synonyms, see Dyar and Heinrich (1927) and Box (1931). Prior to 1911, all references to *D. saccharalis* included the southern corn stalk borer, *D. crambidoides* (Grote), the southwestern corn borer, *D. grandiosella* Dyar, and the sugarcane borer, *D. saccharalis* (F.) (Rolston 1955). In 1911, Dyar made the southern corn stalk borer a separate species. By 1927, Dyar and Heinrich had cleared up much of the confusion concerning the identity of the species in *Diatraea*. Hence, references to *D. saccharalis* prior to 1927 should be reviewed critically.

Organization.—Citations are listed alphabetically by author (last names only), then by publication date, and, if required, alphabetically by title of article and title of journal or book. Unsigned articles are alphabetized under "anonymous" in the bibliography; in the author index they are alphabetized under the agency responsible for the article. The subject table following the author index is a general guide to the information in the entries. Articles are assigned to categories within the subject grid by the year of publication and by the subjects in the abstract, when available, or in the article title.

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AUTHOR INDEX

A

Abarca, M., 1
Ables, J. R., 2
Aburto, V. H., 3
Agarwal, R. A., 4-6
Agarwal, S. B. D., 7
Agriculture Research, 91
Aguilar, J. d', 8
Ainslie, G. G., 9-10
Al-Badry, M. S., 13-4
Alam, M. M., 11-2
d'Albuquerque, J. P., 162
Aldrich, J. M., 15-8
Alemañy, A. V., 1126, 1134
Alfonso, F., 19
Allder, C. T., 20-1
Alvares, R. C., 101
Alvarez, J., 23
Álvarez, L., 22, 632
Amaral, S. F. do, 24
Amargier, A., 782
Amargos, J. L., 25-6
Amborski, G. F., 1147-8
Amborski, R. L., 1147-8
Anderson, H. L., 27, 1191
Angeles, N. J., 28-9, 842-4, 913
Annand, P. N., 30-4
Antigua Agric. Dep., 43, 45, 49
Antigua Bot. Stn. Exp. Plots, 36
App, B. A., 94
Araujo, F. E., 95
Arbuthnot, K. D., 96-7
Arceneaux, G., 409
Arellano, M., 1012-5
Argentina Minist. Agric., 53
Arruda, H. V., 24, 429-31
Artega M., J., 966
Arthur, V., 997
Association S. Agric. Workers, 76
Averna-Saccá, R., 98
Ayala Osuna, A., 678
Ayguipa, G., 935
Azzi, G. M., 99

B

Babayan, G. A., 100-1
Ballou, H. A., 102-5
Balzer, A. I., 253
Bandyopadhyay, K. S., 655
Bangdiwala, I. S., 106-7
Banzatto, D. A., 677
Barbados Agric. News, 35, 37, 39, 41
Barbados Dep. Agric., 56
Barbados Dep. Sci. Agric., 74, 77, 83-4
Barber, T. C., 108
Barbosa Filho, G. C., 678
Barnes, T. R., 415
Barreto, B. T., 109
Barreto Dominguez, R., 110, 1106
Barry, F. V., 988
Bartlett, K. A., 111-5
Bates, J. F., 116-7
Baum, R. J., 741
Beauchamp, C. E., 118-9
Beg, M. N., 120
Beland, G. L., 121
Belcher, B. A., 234
Bell, J. V., 657
Benjamin, F. H., 122
Bennett, F. D., 12, 120, 123-30, 718, 893
Bercini, R., 1066
Bergamin, J., 131-2
Bertels, A., 133-4
Berti Filho, E., 450-2, 793-4
Bess, H. A., 135
Bishopp, F. C., 136
Blanchard, M. A., 396
Boas, A. M. V., 851-2
Bocanegra, S., 137
Bodkin, G. E., 138-49
Bogotá Revista Agricola, 38
Bonfils, J., 8, 150
Bonner, F., 341
Bonnot, G., 469
Bordage, E., 151
Botelho, P. S. M., 152-7 676, 712-3, 769-72
Bourne, B. A., 158-60
Bovell, J. R., 161-2
Bowden, J., 163
Bowling, C. C., 164-5
Box, H. E., 166-233
Bradley, W. G., 647
Braga, E. R., 331
Brandao C., J. M., 934
Brandes, E. W., 234
Brau de Zuzuarregui, M., 235
Breaux, R. D., 626
Bregger, T., 236, 749
Brèthes, J., 237-41
Brewer, F. D., 242-7, 454, 658
Brieger, F. O., 248
British Guiana Dir. Agric., 61
Brooks, J. C., 249
Bryans, T. G., 250
Buffon, A., 251
Bull, D. L., 2
Burgos, J. A., 735
Burleigh, C. H., 732
Burns, E. C., 832
Burrell, R. W., 252
Burton, R. L., 1027
Busoli, A. C., 678
Buxo, D. A., 415
Bynum, E. K., 253-8, 394, 573, 597-8, 605-8, 611-8, 620, 641-2, 749, 799

C

Cabrejos, C., 775

Callan, E. McC., 259
Camacho, L. H., 813
Caminha Filho, A., 260
Campos R., F., 261
Cancienne, E. A., 262-3, 701
Cano, I. B., 965
Cantelo, W. W., 1027
Carbonell, C. S., 264
Carbonell Bruhn, J., 1003-4
Cardosa Montenegro, R., 854
Carl, K. P., 12
Carvalho, J. H. de, 265-6
Castilho, H. J., 451
Cavalcante, M. L. S., 95
Cavalcante, R. D., 95
Cevallos, A., 267, 752
Chan, C. B., 268
Charpentier, L. J., 256-7, 269-84, 395, 474, 504-5, 605-7, 611-6, 620, 709, 739, 741-4, 746-8, 751, 755, 757, 963
Chaudhry, J. P., 6
Chen, C. B., 285-8
Chinloy, T., 289
Chippendale, G. M., 1192
Chong, O., 953
Cleare, L. D., 290-308
Clower, D. F., 423
Coburn, G. E., 309-11, 909
Cochran, B. J., 312
Cockerell, T. D. A., 313
Cockerham, K. L., 378
Collette, G., 997
Colmer, A. R., 828
Comins, H. N., 1029
Concienne, E. J., 282, 284, 379-82, 386-93, 395, 474, 497, 504-5, 507-10, 690, 692-5, 697-8, 701-9, 748, 751, 755, 820
Cornejo S., R., 314
Coro, F., 315
Cortés Iturbe, A., 1
Costa, J. M. B., 774, 936
da Costa Lima, A., 317
Costa Spirgatis, J. A., 316, 318
Cotes, E. C., 319
Crawley, J. T., 321
Crawley, W. C., 320
Croal, K., 901
Crowley, Louisiana Rice Exp. Stn., 65
Cueto Robayna, C. B., 322-8
Curran, C. H., 329

D

Dantas, B., 330-1
Dash, J. S., 332-8
Davis, E. G., 339
Davis, L. A., 340-1, 498
Dekle, G. W., 342-3
Delattre, P., 344
Delgado de Garay, A., 345
Delobel, B., 469
Dias de Souza, H., 346
Diaz Azpiazu, M., 1062-3
van Dine, D. L., 347-52
van Dinther, J., 353-5
Dohanian, S. M., 356-8
Dominguez Llerena, G., 359
Dopson, R. N., 701
Douglas, W. A., 360
Dugas, A. L., 361-95, 425, 474, 533-6, 599-602, 748, 750
Duhra, M. S., 957
Dunckelman, P. H., 236, 396, 624-6
Dupnik, T., 437
Duport, L., 397
Dutch Guiana Agric. Exp. Stn., 60
Dyar, H. G., 398-9

E

Edwards, W. H., 400-7
Elias, L. A., 408
Ellis, T. O., 409
Ellisor, L. O., 410-1, 603-4
Etienne, J., 412
Everett, T., 413

F

Falcon C., N., 795
Fanguy, H. P., 503
Fernández Aguirre, E., 414
Fernandez Artiles, R., 991-3
Fernández Pérez, J., 989, 991-3
Ferreira, C. E., 936
Fewkes, D. W., 415
Figueroa, M., 1127
Fisk, F. W., 416
Flanders, S. E., 417
Flechtmann, C. H. W., 418-9, 1071
Flesh, D., 1106
Flores Caceres, S., 1, 420-1, 948
Floyd, E. H., 422-3
Flynn, J. P., 908
Food and Agriculture Organization, Plant Prot. Bull., 87, 90
Forbes, I. L., 425
Forbes, W. T. M., 424
Fort, C. A., 758
Franco, E., 426-8
Franco do Amaral, S., 429-31
Fretay, E., 432
Fuchs, T. W., 433-40, 912
Fuentes Azcuy, A., 100-1
Fuentes Jiménez, R., 441

G

Galichet, P. F., 150, 442-5, 783
Gallo, D., 446-52, 677, 793-4, 1108
Gallun, R. L., 453
Gantt, C. W., 247, 454-5, 482
Garcia Becerra, J. E., 950
Garciá Montalvo, C., 994
Gaudin, G. R., 506, 964
Gemignani, E. V., 456
Giamalva, M. J., 503
Gifford, J. R., 277, 281, 457-8, 829-31
Gomes, F. P., 1108
Gómez Alvarez, F., 459
Gossens, P. A., 355
Gowdey, C. C., 460-5
Graca, L. R., 466
Granados Reynaud, G., 994
le Grand, F., 236
Grassl, C. O.. 749
Graves, J. B., 764, 910-1
Greaves, C., 467
Green, F. S., 468
Greene, G. L., 343
Grenada Agric. Dep., 40, 42, 46, 50
Grenier, S., 469
Guagliumi, P., 232, 470
Guareschi, M., 946
Guerra, M. de S., 471
Guimaraes, J. H., 472
Guthrie, W. D., 453
Guyton, T. L., 473

H

Hagen, K. S., 1134
Haley, W. E., 254, 256-8, 395, 474, 564-8, 573-5, 611-6, 620, 743, 745, 748, 799
Hammond, A. M. Jr., 475-9, 499, 1147-8
Harding, J. A., 435-9
Harland, S. C., 480-1
Hartley, G. G., 482, 661
Hayslip, N. C., 619, 749
Hayward, K. J., 483-9
von Hedemann, W., 490
Heinrich, C., 399, 575
Henderson, M. T., 1114
Hensley, S. D., 14, 311, 341, 476-8, 491-510, 663, 674, 691, 697-8, 702-9, 723-4, 751, 760-4, 816-20, 828, 840, 848, 858-9, 886, 909-12, 964, 1027
Herrera A., J., 511
Hinds, W. E., 512-36
Hines, C. W., 537
Hoffman, H., 538
Holloway, T. E., 255, 539-76, 609, 617-8
Hopkins, S. H., 1102
Hostounsky, Z., 577
Howard, L. O., 578-84
Howell, W., 998-9
Hrdý, I., 585-8
Hudson, J. C., 11
Huffman, F. R., 439-40, 912
Hummelen, P. J., 589
Hung, T. H., 287-8
Hutson, J. C., 590
Hynes, H. B. N., 591

I

Iman A., E., 511
Incio Paredes, C., 592
Ingram, J. W., 258, 360, 383-4, 394, 410, 574, 593-620, 644, 740, 744-5, 750, 990, 1193
Insect Pest Surv. Bull., 75, 79
International Commission on Zoological Nomenclature, 621
International Society Sugarcane Technologists, 57
Isa, A. L. A. A., 622

J

Jackson, R. D., 278, 281, 623-6, 661, 725, 1050
James, H. C., 627
Jarvis, E., 628
Jasič, J., 587-8, 629-32
Jaynes, H. A., 411, 610, 633-42
Jepson, W. F., 643
Jeter, B. E. Jr., 902
Jodon, N. E., 644
Johnston, J. R., 645
Jones, S. L., 2
Jones, T. H., 646-7
Joyner, H. L., 648
Ju, L. C., 268
Junqueira, G. M., 649

K

Katiyar, K. P., 650-1, 692
Kevan, D. K. McE., 652-3
Khan, M. A., 679
Khan, M. Q., 654
Khanna, K. L., 655
Kidder, G., 23
King, E. G., 121, 245, 455, 482, 656-61, 722, 764, 783, 941, 1050
Kinzer, R. E., 2
Kirst, L. D., 662-3
Knipling, E. F., 664-6
Kopp, A., 667-9
Korytkowski, C. A., 949
Kostritxky, L., 670
Krishnaswamy, S., 903
Kunhi Kannan, K., 671
Kuno, G., 672
Kyle, M. L. Jr., 673-4

L

La Molina Agric. Exp. Stn., 71, 78
Lamas C., J. M., 675
Landers, C., 386
Lara, F. M., 676-8
Latif, A., 679
Latson, L. N., 680
Laude, H. H., 682
Laviolette, P., 469
Leiderman, L., 681
Leidigh, A. H., 682
Lemaire, Y., 683
Leonard, M. D., 684-5
de Lima, R. O. R., 851-2
Litvin, G., 686
Llanos, V. V., 687
Lobdell, R. N., 610
Loftin, U. C., 569-70, 575, 688
Long, W. H., 282, 284, 500, 507-10, 651, 689-709, 751, 755, 841, 860, 1191
Lowe, J. A., 726

M

Macedo, N., 153-7, 710-3, 769-72
Madariaga, A., 714
Magro, J. A., 1117
Mahadeo, C. R., 715-6
Mann, G. A., 458
Manser, P. D., 717-8
Marcovitch, S., 719
Marlatt, C. L., 720
Martin, D. F., 246-7, 454-5, 482, 657-61, 721-2, 725, 1050
Martin, F. A., 312, 723-4
Martinez, A., 948
Martins, J. F. da S., 726-8
Martorell, L. F., 106-7, 501, 729-35, 1182-5
Maskew, F., 736-7
Mason, L. F., 423
Mathes, R., 275-7, 279-80, 282-4, 395, 571, 608, 617-20, 706, 709, 738-51, 757, 963, 1158
Mathieu, J. M., 267, 752
Mathur, B. L., 753
Mattioli, A., 1066
May, D. W., 754
McCormick, W. J., 252, 278-80, 283-4, 474, 502, 504-5, 507-10, 626, 697-8, 702-5, 707-9, 742, 746, 755
McDonald, R. E., 756
McGuire, J. U. Jr., 747, 757
McKaig, N. Jr., 758
McNess, G. T., 682
McPherson, R. M., 759-64
Meadows, C. M., 765
Medina, H., 766, 890
Medina-Gaud, S., 107, 733-4
Mejia-Baiggi, F., 735
Melo, M. S., 95
Mena, J. A., 767
Mendes, A. de C., 153-7, 712-3, 768-72
Mendonca F., A. F., 773-4, 936
Mendoza S., J., 775
Menor Y Ortega, J. G., 776
Metcalfe, J. R., 777-80, 1158
Meyer, A. C., 781
Meynadier, G., 782
Miles, L. R., 659-60, 783
Miranda, C. A., 784
Miret, A. C., 107
Miskimen, G. W., 785-9
Monte, O., 790-1
Montes, M., 792, 890
de Moraes, G. J., 451, 793-4
de Moraes, R. S., 1002
Morales, E. N., 795, 935
Moreira, C., 796
Morgan, H. A., 797-8
Morris, J. W., 799
Morrison, R. K., 2
Moyano, A., 800
Muesebeck, C. F. W., 801
Mullins, A. M., 696
Mungomery, R. W., 1158
Munro, J. A., 802-3
Murthy, D. V., 654
Myers, J. G., 804-10

N

Nagarkatti, S., 811
Nair, K. R., 811
Nakano, O., 154, 713
Naranjo-Hincapie, N., 812-3
Negm, A. A. G., 814-20
Nelli, E. J., 1059
Newsom, L. D., 693-6, 701-7, 751, 821-2
Neyra, M., 953
Nickel, J. L., 823
Niilo, V., 824
Novâk, K., 585-8, 825-6
Novaretti, W. R. T., 1057-9
Nunez, P., 827
Nunez, W. J., 828

O

de Oliveira, E. R., 1108-9
Oliver, A. D., 832
Oliver, B. F., 479, 829-31
Ortega Corona, A., 845, 1064-5
Osman, N. B., 833
Osterberger, B. A., 517-23, 533-6, 834-5
Overman, J. L., 836

P

Padovani, F., 1132, 1134

Painter, R. H., 837
Pan, Y.-S., 838-41
Paredes, P. P., 28-9, 842-4
Parisi C., R. A., 845
Parker, H. L., 846
Patrick, J. C., 847-8
Peairs, F. B., 849-50
Pedersen, K. B., 1128
Percein, D., 678
Pereira, C. E. F., 851-2
Pérez Álvarez, Z., 853
Pérez González, P., 854
Perez Perez, R., 416, 855-60
Pergolani de Costa, M. J., 861
Pickel, B., 862
Pickles, A., 863-4
Piedra, A. A., 865-6
Piedra Corvison, A., 867
Pierce, W. D., 868
Pinheiro, B. da S., 726
Pinto da Fonseca, J., 869
Plank, H. K., 115, 870-83
Pollack V., M., 884-5
Pollet, D. K., 886
Pontis Videla, R. E., 233
Porres, G., 1111
Potes, A. F., 887
Prasad, R. N., 7
Prasad, S. K., 7
Programa Nacional de Melhoramento da Cana-da-Açúcar, Brasil., 888
Pruna, P. M., 889-90
Pschorn-Walcher, H., 128, 891-3
Puerto Rico Exp. Stn., 68-9, 72, 81
Puerto Rico Federal Exp. Stn., 86
Puerto Rico Univ. Agric. Exp. Stn., 66, 73, 80, 82

Q

Quelch, J. J., 894
Questel, D. D., 236, 750, 895
Quintana-Muñiz, V., 896-9, 1129-34

R

Rabson, R., 900
Rai, B. K., 901
Ramp, R. M., 799
Randolph, N. M., 902, 1052-4, 1187
Rands, R. D., 572
Rao, S. V. R., 680
Rao, V. P., 903
Ratkovich, M. E., 904-5
Reagan, T. E., 506, 832, 886, 906-12, 964, 1146
Reeves, B. G., 2
Requena, J. R., 913
Reyna R., R., 845
Richard, C. A., 723-4
Ridgway, R. L., 2
Rio Piedras Insular Exp. Stn., 51, 59
Risco Briceno, S. H., 774, 914-36
Ritchie, A. H., 937
Roccia, A. O., 727-8
Roddy, L. R., 510
Rodriguez, C. L., 1120
Rogers, J. S., 97
Röhrig, P. E., 409
Rolston, L. H., 938
Roney, J. N., 939
Rosales Labrada, A., 854
Rosenfeld, A. H., 940
Rossetto, C. J., 727-8
Roth, J. P., 941
Ruffinelli, A., 942-6
Ruinard, J., 947
Ruiz, A. R., 250
Ruiz, M. A., 948
Ruiz Medina, G. A., 949
Ruiz Valhor, L. D., 950
Russo, G., 951
Růžička, Z., 587-8, 952
Ryder, W. D., 953

S

Saint Kitts-Nevis Agric. Dep., 55, 62-3
Saint Lucia Dep. Agric., 70
Saint Vincent Dep. Agric., 44, 47, 52, 67
Saint Vincent Govt. Gaz., 64
Salinas, J. G., 954
Salt, G., 955
Sánchez Navarrete, F., 956
Sanders, C., 387-9
Sandhu, J. S., 957
Sanford, J. W., 283, 506, 958-64
Saplala, V. L., 965
Sarmiento M., J., 966-7
Saunders, J. L., 850
Saxena, A. P., 968
Scaramuzza, L. C., 969-93, 1035
Séin, F. Jr., 685
Senigagliesi, C., 1066
Senmache Santa Cruz, J. M., 994
Sgrillo, R. B., 699, 700, 995-7
Shell Agric. Serv., 89
Shepherd, F. R., 998-9
Sherman, F., 1000
Sherwood, S. F., 234
Shubin, V. F., 1001
da Silva, A. P., 331
Silva, G. M. de A., 1002
da Silva, M. F., 1030
Silveira Neto, S., 155-7, 676-7, 772
Silviera-Guido, A., 1003-4
Simmonds, F. J., 129, 1005-11
Simon F., J. E., 137, 1012-5
Sivasubramanian, M., 1016
Skeete, C. C., 1017-21

Smith, C. E., 385, 390-4
Smith, J. W. Jr., 438, 440, 661, 1023
Smith, L., 1022
Smyth, E. G., 1024-26
Snow, J. W., 1927
Sobral, S. de M., 936
Solomon, M. E., 1928
Sosa Moss, C., 994, 1064-5
Southwood, T. R. E., 1029
de Souza, H. D., 936, 1030
Spencer, H., 524-32
Spink, W. T., 755
Squire, F. A., 130, 1031-4
Stafford, T. J., 708
Stahl, C. F., 1035
Starks, K. J., 453
Starr, D. F., 1036-7
Stehlé, H., 1038-9
Strong, L. A., 1040-4
Stuart, G. M., 1045
Stubbs, W. C., 1046
Sturdy, D., 1047
Sugar Bull., 85
Summers, T. E., 281, 343, 661, 722, 725, 1048-50
Szumkowski, W., 29

T

Taylor, D. J., 1051
Teetes, G. L., 902, 1052-4
Terán, F. O., 1055-9
Terra, J. G., 1060
Thames, W. H. Jr., 750, 1102
Thompson, A. C., 941
Todd, E. H., 236
Tornisielo, W. L., 996
de la Torre y Callejas, S. L., 1061-3
Torres, C., 1066
Torres, J., 1133
Torres Gau, C., 1064-5
Tower, W. V., 1067
Townsend, C. H. T., 1068-70
Trahan, G. B., 680, 830-1
Treat, A. E., 1071
Tseng, H. T., 1072
Tucker, R. W. E., 1073-1101
Tucumán Estación Experimental Agricola, 93
Turco, C. P., 1102

U

Union South Africa Dep. Agric., 48
Urich, F. W., 1104
U. S. Bureau of Entomology and Plant Quarantine and Louisiana Agricultural Experiment Station, 1103
U.S. Department of Agriculture, 88
U.S. Department of Agriculture Bur. Agric. Econ., 54
U. S. Department of Agriculture Insect Pest Surv., 58

V

Valdes Barry, F., 1106
Vallo, V., 587-8
Valsechi, O., 1107-9
Van Zwaluwenburg, R. H., 1110
Varbin, D., 1109
Veyrunes, J. C., 782
Viamonte Morales, C., 1111
Viator, D. P., 1112, 1114
Viator, S. J., 1113
des Vignes, W. G., 1115-6
Villacorta, A., 1117
Villacorta, W., 967
Villas-Boas, H. D. C., 686
Virkki, N., 1118-20
Vizioli, J., 1121

W

Wadley, F. M., 1122
Walder, J. M. M., 699-700, 995
Walder, J. O., 1123
Walker, D. W., 897-9, 1120, 1124-1134, 1141
Walters, E. A., 1135-6
Warren, G. T., 1137
Watson, J. R., 1138-9
Watts, F., 1140
Webster, O. J., 1141
Weismann, L., 587-8, 1142
van Whervin, L. W., 780, 1143-4
White, E. A., 1145-6
White, M. R., 1147-8
Wiendl, F. M., 452, 699, 700, 995-7
Wilde, W. H. A., 1144
Wille, J., 1149-55
Williams, B. R. Jr., 1157
Williams, C. H. B., 1156
Williams, J. R., 1158
Williams, R. N., 452
Wilson, C. E., 1159
Wilson, J. W., 609, 619, 1160-2
Wolcott, G. N., 1163-85
Wongsiri, T., 1186-7
World Farming, 92
Worsham, E. L., 1188
Wouters, L. J. A., 1189

Y

Yadav, R. P., 1190-1
Yin, C. M., 1192
Yoder, P. A., 1193

Z

Zelený, J., 585-8

	Before 1910	1910-1919	1920-1929
General Biology	313,490,578,797-8,1046	9,140,570,646	122,237,292,424,549,551,575,593
Taxonomy, Morphology, Distribution	151,1046	39,102,398,541,545,570,937,1165	122,181,237-8,255,336,399,549,575,668,1018,1173
Physiology, Diapause, Behavior, Reproduction		546,570,1163	526,575,1024
Rearing		570	575
Ecology	151,798,1046	9,37,105,541,570,1164-6	54-5,57,109,168,181,184,291,349,526,549-51,566,575,647,667-9,955,1170,1176
Plant Resistance, Varieties	1046	35	51,57,168,176-7,184,186,566-7,593,667-9,940,955,1170,1176
Other Host Plant--Borer Interaction	1046	9,37,108,348,397,473,481,570,682,1163	46,57,98,109,122,172,181,185,188,238,291,297,336,526,550-1,553,568,575,593,647,667-9,872-3,955,1067,1156,1159,1168-9
Radiobiology, Sterilization			
Chemical Control	1046	544,570	20-1,512-3,524-6,528,549-50,552-4,574-5,583-4,667,719-20,754,878
Cultural Control	798,1046	35,105,140-1,144,397,473,481,541-3,570,646,682,894,1000,1104,1163-5,1188	20-1,50,55,57,158-9,168,170,172,291,297,338,349,460,526,549-54,556,558,564-6,575,580-4,593,667-9,671,720,754,871-2,878,955,1159,1170-1,1174,1176,1193
Biological Control			44,109,184,781,877-8
Parasites	797,1046	39,40,138,140-2,144,333,347-8,480-1,540-2,544,547,569-70,579,590,628,646,894,1104,1163-4,1167	15-6,50-1,59,109,147,149,158-61,166-75,178-83,187-8,240-1,291,293-4,296,329,349-50,460,462-4,526-7,529-30,537,548-9,552-5,557,566,575,580-2,593,667,669,868,870,875-7,955,1018,1020-1,1068,1073,1138-9,1159,1170-1
Predators	1046	37,141,145,320,540-1,570,646	168,235,575,875,955,1024,1159
Pathogens		348,570,645-6,937,1104	168,575,668,870,874,955,1159
Economics, Management	151,319,797,1046	9,10,35-8,40-1,102-5,139,141-4,146,162,332,334-5,347,397,481,541,569-70,590,628,646,714,796,894,1140,1163,1165	20-1,42-7,49,50,52-8,109,122,148,158-9,161,166,168,170,172,184,237,239,251,290-1,295-7,317,321,336-8,349,461-2,464-5,526,537,549,551,556,568,575-6,583,593,647,669,671,756,878,951,955,998-9,1017,1019,1021-2,1035,1068,1073,1121,1135,1156,1159,1172-3,1175
Miscellaneous	1046	539-40,570,736	48,554,575,593,737,1040

AND BY PERIOD OF PUBLICATION

1930-1939	1940-1949
260,765,863	132,205,209,352,459,484-8,597,627,652-3,942-3,956,1051,1099,1137
190,194,199,869,1152,1179	205-6,489,595,627,652,675,956,1099
1032,1081,1092,1094	73,205
	131,1051
191-3,197,199,202,256,300,400,514,516,522-3,685,805,808,834,863,881,1033,1081,1083-4,1088,1090,1092,1094,1098,1177-8	73,75,205,360,383,407,591,597,1099
193,197,299,300,401,403-6,411,519,560,685,688,745,1042,1082,1092,1095-6,1098,1179	77,346,407,425,597,604,644,740,1047
65,191,193,195-8,202-3,234,300,400,519,688,758,805,809-10,869,880,1076,1149	205,360,407,489,597,627,652-3,675,1162
67,234,410,520,1042	30-2,85,136,363-4,367,384,391,596-7,599,600-1,605-7,612-3,1103,1161,1162
60-1,67,191,193,197,234,253,256,516,520.559,610,685,835,880,971,1031,1085	360,363,407,597,627
357	975-6,992-3
17-8,62-3,66,68-9,111,189,191-3,195-204,234,260-1,300-4,356,358,361,400,417,515,517-8,520,522-3,531-6,559,561,573,610,633-41,643,790-1,801,804-10,863-4,881,939,969-71,1025-6,1033,1038,1041-2,1045,1069,1074-81,1083-7,1089-91,1093-8,1149,1151-3,1180	3,25-6,30-4,70,72-4,77-84,86,112-5,205,208,259,268,305-8,339,345-6,362-3,414,467,485-6,571,591,597,609,627,642,652,687,867,942-3,972-4,989-91,1043-4,1070,1099,1137,1160-1,1181,1183-5
202,402,1081,1083,1182	597
191,193,195,202,670	597,652
61-2,64-5,191,196-8,202,261,298,300,302,400,402,519,521,603,610,684,776,790,809-10,862,864,869,879-80,1031,1033,1041-2,1074,1076,1095-6,1098,1122,1136,1149-52,1178	32,71,75-6,78,83,94,118,205,254,257,308,346,351,360,363-6,383,407,425,456,468,483,485-6,562,594-5,597,602,617-8,627,652,675,865,867,882-3,944,956,974-5,1105,1107,1111,1154,1162
64,234,572	207,954

	1950-1959
General Biology	210,214,371,620,729,905,1060
Taxonomy, Morphology, Distribution	87,210-2,215,221,223-4,227-9,420-1,938,1110
Physiology, Diapause, Behavior, Reproduction	895
Rearing	322-5
Ecology	212,223,229,232,289,470,655.744,918,988,1008,1110
Plant Resistance, Varieties	97,210,212,330-1,447,608,620,679,681,729,749-50,887,895,1008,1039,1110
Other Host Plant--Borer Interaction	106,110,210,212,219,221,224,227,229,371,409,608,620,717,729-31,742,744,837,887,1060
Radiobiology, Sterilization	
Chemical Control	96,116,137,250,370-2,376,380,382,386,392-3,598,608,614,620,679,693-5,697,702-4,707,709,729,732,750,821,887,918,977,1012,1036-7
Cultural Control	212,370-1,379,381,608,620,729,750,895
Biological Control	217,264,649,984-5
Parasites	1,7,116,119,210-2,215,219,221-4,230,232,265,269-75,279,285,287,325-6,359,370-1,421,446,448,470,563,608,611,619-20,648,729,750,777,837,846,887,914-7,919-25,978-82,985-6,988,1005-10,1100-1,1110,1155
Predators	262-3,470,619-20,701,729,837,986,988
Pathogens	230,233,620,729,986,988
Economics, Management	87,106,116,210-2,215-6,218,220-1,223-6,230,258,266,284,289,368-9,371,373-5,377-8,385,387-8,394-5,420,474,608,615-6,620,654-5,689,706,709,729,731,742-4,748,750-1,755,799,802-3,861,866,887,904,945,983,1005,1060,1106,1110
Miscellaneous	213,229,389-90,470,692

1960-1969	1970-1980
117,165,248,328,413,422,426-8,449,491,587,1186	101,589,716,994
4,6,117,342,491,621,1158	135,315,443,691,793,936,1192
11,416,422,475,492,501,629-30,650-1,787,824-5,847,855-6,850,1118-20,1124,1126-7,1131,1158,1186	22,152,157,163,433,435,438,476-9,589,658,662,676-7,691,716,721,771-2,788-9,833,848,857-9,884,935,997,1030,1116,1147-8,1192
4,165,499,501,586-7,622,631,786,838,841,1134,1186-7	242-4,246-7,318,355,418-9,452,454,589,623,657,713,752,766,769,958,994-6,1117,1133
11,422,432,507,588,779,814-5,952,1027,1158	133,135,152-3,156-7,435-6,589,632,662-3,666,768,793-5,960,1029,1115
4-5,24,117,415,429,500,673,708,738-9,1052,1158	99,267,309-12,396,408,430-1,435,453,503,624-6,662-3,674,678,680,691,711-2,723-4,727-8,752,829-31,836,839-40,845,849-50,888,994,1054,1064-5,1112,1114,1141,1157
4,27,123,164,422-3,432,622,741,746-7,757,828,842-3,901,913,1004,1108,1158	19,435-6,443,589,691,726,811,854,896-9,1002,1056,1109,1157
117,664,824-5,890,900,1125,1128-31,1144,1158	959,961,1123,1132-3
117,236,276,314,340-1,353,413,415,432,497-8,502,504-5,507-10,585-6,690,696,698,705,718,767,784,814,817,820,902,946,953,963,1013-5,1158,1186,1189-91	14,93,100,154,343,437,439,506,691,699,700,775,906-12,949,962,964,966-7,1053,1066
117,236,328,413,432,1158	691,726,770,811,845,1056,1146
413,823,926,929,1001	851,1011,1029
8,28-9,90,117,123-4,128-9,231,252,276-7,286,288,314,457-8,588,592,683,718,733,778-80,785,800,844,893,903,927-8,930-1,965,987,1142-3,1158	2,12,91,93,101,120-1,125-7,130,135,150,245,249,281,316,344,412,434-6,440-5,450-1,454-5,469,471-2,482,511,538,577,589,632,656-7,659-61,665-6,686,691,710,725,759-64,773-4,783,792,794-5,811,852-3,885,888,891-2,932-4,941,950,960,968,1016,1023,1048,1050,1057,1059,1061-3,1071-2,1102,1115
280,422,510,814-8	2,95,135,281,589,819,832,857,909,960,1145-6
622,753	13-4,278,281,672,782,1133
8,29,88-9,107,117,123,164,277,282-3,327,415,423,493,507,690,734,741,746,757,779,812-3,827,847-8,1003-4,1158	23,92-3,134,354,466,494-6,511,589,691,699,700,715,722,725,735,795,822,886,947,957,1028,1034,1049,1058,1113
826,889,1055	155,997

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